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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/728,389	12/05/2003	Kevin Smith	SYN-8312	9231
27316	7590	03/28/2007	EXAMINER	
GREGORY L. MAYBACK, P.A. 5722 S. FLAMINGO ROAD #232 FORT LAUDERDALE, FL 33330			WOO, JULIAN W	
		ART UNIT		PAPER NUMBER
				3731
SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MONTHS	03/28/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	10/728,389	SMITH ET AL.
	<b>Examiner</b>	<b>Art Unit</b>
	Julian W. Woo	3731

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 27 February 2007.
- 2a) This action is FINAL.                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-87 is/are pending in the application.
- 4a) Of the above claim(s) 67-82 is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-15, 18-66 and 83-87 is/are rejected.
- 7) Claim(s) 16 and 17 is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All    b) Some \* c) None of:
  1. Certified copies of the priority documents have been received.
  2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)            | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | Paper No(s)/Mail Date: _____                                      |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>3/17/04, 8/10/04, 1/5/05</u>                                  | 6) <input type="checkbox"/> Other: _____                          |

## **DETAILED ACTION**

### ***Election/Restrictions***

1. Applicant's election of claims 1-66 and 83-87 in the reply filed on February 27, 2007 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

### ***Claim Rejections - 35 USC § 112***

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 19 and 83 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. With respect to claim 19, "said shim" lacks antecedent basis. With respect to claim 83, "said actuator" lacks antecedent basis.

### ***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States

only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1-10, 12-15, 18, 20-25, 27-36, 38, 55-57, 66, 83-85, and 87 are rejected under 35 U.S.C. 102(b) as being anticipated by Meeker ((2,108,206). Meeker discloses, at least in the figures and in col 1, line 51 to col. 2, line 41; a retractor including a rigid body (1); a retraction device for manipulating or grasping an object, where the device has a head (2, 3, or distal portion of 1) connected to the distal end of the body, a connector (4c) movably disposed in the body; two, flexible needles (4a or 4b) of shape memory material ("resilient piece of metal"); and a removable actuation device (9) connected to the proximal end of the body; where the body has a longitudinal extent, where the head is connected removably or integrally formed (i.e., integrated) with the body; where the head has two head halves (i.e., the head is symmetrical with respect to a longitudinal axis and can be defined by two halves formed together) and defines tracks (5a), which have track exits (5); where the track exits open in a direction at a substantially orthogonal angle to the longitudinal direction, where the track exits are disposed to permit movement therethrough substantially without friction and are disposed on opposing sides of the head, where the surfaces of the tracks guide the needles in a direction substantially orthogonal to a movement direction of the connector (see fig. 4), where the tracks have a shape corresponding to a memory shape of a portion of the needles, where the needles include a substantially linear proximal portion and an arcuate distal portion, where the arcuate shape of the portion is no greater than a circle and greater than a semi-circle (around 4c), where the material of the needles is a pseudo-elastic metal, where the actuation device has a rod (4) removably connected

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to or is integrally formed with (i.e., integrated with) the connector, where the retractor includes proximal stop (6), where the actuation device has a locking device (12) or an overstroke preventor, where the actuation device is a one-handed actuation device, where the head has an anchoring spike (2), where the actuation device selectively moves an actuator (8), where the needles are sized to control penetration depth into tissues, and where the needles are fixedly connected to the connector.

6. Claims 1, 5, 11, 26, and 37 are rejected under 35 U.S.C. 102(b) as being anticipated by Schmitt (3,754,555). Schmitt discloses, at least in the figure and in col. 2, line 47 to col. 3, line 47; a retractor including a flexible body (12 and 14); a retraction device for manipulating or grasping an object, where the device has a head (16) movably disposed in the body; flexible needles (24) of shape memory material ("resilient" nylon or stainless steel); a connector (at 28), and an actuation device (32) connected to the proximal end of the body, where the needles include a portion of arcuate shape (in the vicinity of 30), where the head includes tracks (26) and track exits (distal end of 26) each having a diameter at least as large as a needle diameter, and where the body includes a coil winding (12) and an outer jacket (14).

7. Claims 39 and 60 are rejected under 35 U.S.C. 102(e) as being anticipated by Biggs et al. (6,599,311). Biggs et al. disclose, at least in figures 8-10 and 24A-24B and in col. 11, lines 21-53; col. 16, lines 39-50; and col. 17, lines 52-66; a combination of a flexible endoscope (e.g., 34) having at least one working channel and a tissue retractor (e.g., 200) including a flexible body (e.g., 35), a retraction device including a head (e.g., 208), a connector (e.g., 206), flexible needles (e.g., 204) of a shape memory material

and including a portion with an arcuate shape, and an actuation device (e.g., 202) connected to a proximal end of the body.

***Claim Rejections - 35 USC § 103***

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

9. Claims 39-54, 58, 59, 61-65, and 86 are rejected under 35 U.S.C. 103(a) as being unpatentable over Meeker (2,108,206) in view of Green (5,928,137). Meeker discloses the invention substantially as claimed. Meeker discloses a tissue retractor including a rigid body and retraction device as claimed. However, Meeker does not disclose that the retractor is combined with a flexible endoscope having at least one working channel for receiving the body and the retraction device. Green teaches, at least in figures 1 and 5 and in col. 6, lines 49-65; a flexible endoscope having at least one working channel (e.g., 152) for receiving an endoscopic tool. It would have been

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obvious to one having ordinary skill in the art at the time the invention was made, in view of Green, to include a flexible endoscope with the device of Meeker. A flexible endoscope with at least one working channel would not only allow access for Meeker's device to a surgical site, it would also allow diagnosis and imaging of the site, especially where the site has narrow, even tortuous confines.

***Allowable Subject Matter***

10. Claims 16 and 17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

11. Claim 19 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

12. The following is a statement of reasons for the indication of allowable subject matter: None of the prior art of record, alone or in combination, discloses a retractor including, inter alia, a body, a retraction device with a head, a connector, flexible needles, and an actuation device, where the head defines tracks for the needles and has two head halves removably connected to one another and a shim disposed between the two head halves.

As allowable subject matter has been indicated, applicant's reply must either comply with all formal requirements or specifically traverse each requirement not complied with. See 37 CFR 1.111(b) and MPEP § 707.07(a).

***Conclusion***

13. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Grieshaber et al. (5,716,328) and Ginn (6,645,205) teach retractors.

14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julian W. Woo whose telephone number is (571) 272-4707. The examiner can normally be reached Mon.-Fri., 7:00 AM to 3:00 PM Eastern Time, alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anh Tuan Nguyen can be reached on (571) 272-4963. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Julian W. Woo  
Primary Examiner

March 26, 2007